This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1 -6. (Cancelled)

7. (Previously Presented) A reactor for generating moisture, having an inlet side and an outlet side, comprising:

a first reactor structural component on the inlet side of the reactor having an outside wall;

a second reactor structural component on the outlet side of the reactor having an outside wall, wherein the first and second components are mated to form a reactor shell having an interior space;

a material gas supply passage provided in the first reactor structural component disposed to supply material gases into the interior space;

a material gas supply joint connected to the material gas supply passage;

a moisture gas outlet passage provided in the second reactor structural component to lead out moisture from the interior space;

a moisture gas take-out joint connected to the moisture gas outlet passage;

fin base plates attached to the outside walls of the first and second components;

a plurality of fins disposed on the fin base plates;

a heater, having an outside, disposed on the outside wall of the second component; and

a heater pressing plate, having an outside, disposed on the outside of the heater, wherein the fin base plate is attached to the outside of the heater pressing plate,

wherein at least one of the fin base plates comprises a through hole for the corresponding joint, and a notch connected with the through hole and having a width of approximately the same diameter as the through hole.

8. (Cancelled)

9. (Previously Presented) A reactor for generating moisture according to claim 7 wherein said fins are disposed symmetrically about the material gas supply joint.

10. (Cancelled)

11. (Previously Presented) A reactor for generating moisture according to claim 7 wherein said fins are disposed symmetrically about the moisture gas take-out joint.

12. (Cancelled)

13. (Original) A reactor for generating moisture according to claim 9, wherein said fins are axially symmetrical about said material gas supply joint.

14. (Cancelled)

15. (Original) A reactor for generating moisture according to claim 9, wherein said fins are axially symmetrical about said moisture take-out joint.

16. (Cancelled)

17. (Original) A reactor for generating moisture according to claim 9, wherein said fins are centrally symmetrical about said moisture take-out joint.

18. (Cancelled)

19. (Previously Presented) A reactor for generating moisture according to claim 7, wherein said fins comprise surfaces treated with alumite.

20. (Cancelled)

21. (New) A reactor for generating moisture, having an inlet side and an outlet side, comprising:

a first reactor structural component on the inlet side of the reactor having an outside wall;

a second reactor structural component on the outlet side of the reactor having an outside wall, wherein the first and second components are mated to form a reactor shell having an interior space;

a material gas supply passage provided in the first reactor structural

component disposed to supply material gases into the interior space;

a material gas supply joint connected to the material gas supply passage;

a moisture gas outlet passage provided in the second reactor structural component to lead out moisture from the interior space;

a moisture gas take-out joint connected to the moisture gas outlet passage;

fin base plates attached to the outside walls of the first and second components;

a plurality of fins disposed on the fin base plates;

a heater, having an outside, disposed on the outside wall of the second component; and

a heater pressing plate, having an outside, disposed on the outside of the heater, wherein the fin base plate is attached to the outside of the heater pressing plate,

wherein at least one of the fin base plates comprises a through hole for the corresponding joint, and a notch connected with the through hole and having a width that is smaller than the diameter of the through hole.

22. (New) A reactor for generating moisture according to claim 21 wherein said fins are disposed symmetrically about the material gas supply joint.

23. (New) A reactor for generating moisture according to claim 21 wherein said fins are disposed symmetrically about the moisture gas take-out joint.

24. (New) A reactor for generating moisture according to claim 21, wherein said fins comprise surfaces treated with alumite.

25. (New) A reactor for generating moisture according to claim 22, wherein said fins are axially symmetrical about said material gas supply joint.

26. (New) A reactor for generating moisture according to claim 22, wherein said fins are axially symmetrical about said moisture take-out joint.

27. (New) A reactor for generating moisture according to claim 22, wherein said fins are centrally symmetrical about said moisture take-out joint.